



FIG. 1

FIG. 2

$$\begin{array}{c}
 \text{200} \quad \downarrow \quad \text{250} \quad \downarrow \\
 \text{Slot} = \begin{bmatrix} z_1 & z_5 \cdots z_{4n-3} & \text{pilots} & z_{4n-2}^* \cdots z_6^* & z_2^* \\ z_2 & z_6 \cdots z_{4n-2} & \text{pilots} & -z_{4n-3}^* \cdots -z_5^* & -z_1^* \end{bmatrix} + \\
 \begin{bmatrix} \tilde{z}_3 & \tilde{z}_7 \cdots \tilde{z}_{4n-1} & \text{pilots} & -\tilde{z}_{4n}^* \cdots -\tilde{z}_8^* & -\tilde{z}_4^* \\ \tilde{z}_4 & \tilde{z}_8 \cdots \tilde{z}_{4n-2} & \text{pilots} & \tilde{z}_{4n-1}^* \cdots \tilde{z}_7^* & \tilde{z}_3^* \end{bmatrix} \\
 \begin{array}{ccccc}
 \uparrow & \uparrow & & \uparrow & \uparrow \\
 \text{210} & \text{220} & & \text{240} & \text{230}
 \end{array}
 \end{array}$$

Variable	Mean		SD		t		p	
	Control	Case	Control	Case	Control	Case	Control	Case
Age	24.5	24.5	1.5	1.5	0.0	0.0	0.999	0.999
Gender	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Education	12.0	12.0	1.0	1.0	0.0	0.0	0.999	0.999
Marital status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental religion	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental health status	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental family size	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental parental education	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental parental occupation	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental parental income	1.0	1.0	0.0	0.0	0.0	0.0	0.999	0.999
Parental parental parental parental parental parental religion								

300

250

slot =

$$\begin{bmatrix} z_1 & z_5 & \cdots & z_{4n-3} & \text{pilots} & z_{4n-2}^* & \cdots & z_6^* & z_2^* \\ z_2 & z_6 & \cdots & z_{4n-2} & \text{pilots} & -z_{4n-3}^* & \cdots & -z_5^* & -z_1^* \\ z_3 & z_7 & \cdots & z_{4n-1} & \text{pilots} & z_{4n}^* & \cdots & z_8^* & z_4^* \\ z_4 & z_8 & \cdots & z_{4n} & \text{pilots} & -z_{4n-1}^* & \cdots & -z_7^* & -z_3^* \end{bmatrix}$$

↑ ↑

310 320

↑ ↑

340 330

FIG. 4

400

$$\text{slot} = \begin{bmatrix} z_1 & z_7 & \dots & z_{6n-5} & \text{pilots} & z_{6n-4}^* & \dots & z_8^* & z_2^* \\ z_2 & z_8 & \dots & z_{6n-4} & \text{pilots} & -z_{6n-5}^* & \dots & -z_7^* & -z_1^* \\ z_3 & z_9 & \dots & z_{6n-3} & \text{pilots} & z_{6n-2}^* & \dots & z_{10}^* & z_4^* \\ z_4 & z_{10} & \dots & z_{6n-2} & \text{pilots} & -z_{6n-3}^* & \dots & -z_9^* & -z_3^* \\ z_5 & z_{11} & \dots & z_{6n-1} & \text{pilots} & z_{6n}^* & \dots & z_{12}^* & z_6^* \\ z_6 & z_{12} & \dots & z_{6n} & \text{pilots} & -z_{6n-1}^* & \dots & -z_{11}^* & -z_5^* \end{bmatrix}$$

FIG. 5

500  
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$$\text{Slot} = \begin{bmatrix} z_1 z_5 \cdots z_{4n-3} z_3 z_7 \cdots z_{4n-1} \text{ pilots} & -z_{4n-2}^* \cdots -z_6^* - z_2^* & -z_{4n}^* \cdots -z_8^* - z_4^* \\ z_2 z_6 \cdots z_{4n-2} z_4 z_8 \cdots z_{4n} \text{ pilots} & z_{4n-3}^* \cdots z_5^* z_1^* & z_{4n-1}^* \cdots z_7^* z_3^* \\ z_3 z_7 \cdots z_{4n-1} z_1 z_5 \cdots z_{4n-3} \text{ pilots} & -z_{4n}^* \cdots -z_8^* - z_4^* & -z_{4n-2}^* \cdots -z_6^* - z_2^* \\ z_4 z_8 \cdots z_{4n} z_2 z_6 \cdots z_{4n-2} \text{ pilots} & z_{4n-1}^* \cdots z_7^* z_3^* & z_{4n-4}^* \cdots z_5^* z_1^* \end{bmatrix}$$